RIGEBA

RG-ML80B-KEE8H36A

EIGHT HEAD BEAM BAR

Guangzhou Geliang Lighting Technology Co.,Ltd
Tel:+8620-86872001/2/3
www.rigelighting.com

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1. GENERAL INFORMATION

INTRODUCTION: Congratulations, you have just purchased one of the most innovative and reliable lighting fixtures on the market today! The Eight head beam bar has been designed to perform reliably for years when the guidelines in this booklet are followed. Please read and understand the instructions in this manual carefully and thoroughly before attempting to operate this unit, this fixtures uses a unique lamp that has very specific guidelines that must be strictly followed. This manual contains important information regarding safety protocol that must be strictly adhered to at all times.

UNPACKING: Thank you for purchasing the Eight head beam bar. Every Eight head beam bar has been thoroughly tested and has been shipped in perfect operating condition. Carefully check the shipping carton for damage that may have occurred during shipping. If the carton appears to be damaged, carefully inspect your unit for damage and be sure all accessories necessary to operate the unit have arrived intact. In the event damage has been found or parts are missing, please contact our customer support team for further instructions. Please do not return this unit to your dealer without first contacting customer support at the number listed below.

CUSTOMER SUPPORT: We provides a customer support line, to provide set up help and to answer any question should you encounter problems during your set up or initial operation. You may also visit us on the web at www.rigelighting.com for any comments or suggestions. For service related issue please contact us.

Voice:+8620-86872001/2/3
Fax: +8620-86872001/2/3
E-mail: support@rigelighting.com
Forum: www.rigelighting.com/net
Working Time: (BeiJing Time)
Monday to Friday 08:00~12:00 13:30~17:30 18:30~20:30
Saturday 09:00~12:00 13:30~17:00
Note: all the rest of China's holidays!

Warning! To prevent or reduce the risk of electrical shock or fire, do not expose this unitto rain or moisture.

Caution! There are no user serviceable parts inside this unit. Do not attempt any repairs yourself, doing so will void your manufactures warranty.

Please do not discard the shipping carton in the trash. Please recycle whenever possible.

Important: Damages caused by the disregard of the instructions in this user manual are not subject to warranty.

- Never open this fixture while in use!
- During the initial operation of this fixture, a light smoke or smell may emit from the interior of the fixture. This is a normal process and is caused by excess paint in the interior of the casing burning off from the heat associated with the lamp and will decrease gradually over time.
- This device falls under protection-class 1. Therefore it is essential that the device be grounded properly.
- All electrical connections should be performed by a qualified electrician.
- Be sure the available voltage matches the voltage requirements of the unit.
- Be sure the power cord is never crimped or damaged. If the power cord is damaged, replace it immediately with a new one of similar power rating.
- Always disconnect from main power before performing any type of service or any cleaning procedure.
- Only handle the power cord by the plug. Never pull out the plug by tugging the wire portion of the cord.
- This fixture is designed for use indoors. Use of this fixture outdoors will void the manufactures warranty.
- Please be aware that damages caused by manual modifications to the device are not subject to warranty.

2. SAFETY INSTRUCTIONS

The Eight head beam bar is an extremely sophisticated piece of electronic equipment. To guarantee a smooth operation, it is important to follow the guidelines in this manual.We will not accept responsibility for damages resulting from the misuse of this fixture due to the disregard of the information printed in this manual.

1) Always be sure that the fan and the air inlets remain clean and are never blocked. Allow about 6" (15cm) between this fixture and other devices or a wall to allow for proper cooling.

2) Be sure to unplug the Eight head beam bar from the power outlet before performing any service related issues.

3) Never look directly into the lamp beam. You risk injury to your retina, which may induce blindness.

4) For safe operation, follow the Installation guide described in chapter two of this manual. Operating the Eight head beam bar without suited safety aids such as safety cables or clamps can increase the risk of damage and/or personal injury.

5) Only qualified and certified personnel should perform installation.

6) When mounting this fixture, use only the original rigging parts included with this fixture. Any structural modification will void the original manufactures warranty and may increase the risk of damage and/or personal injury.

7) To reduce the risk of fire or shock, do not expose this fixture to rain or moisture.

8) Do not attempt to operate this fixture if the power cord has become damaged or frayed.

Important Notice: Damages resulting from the disregard of safety and general user instructions found in this user manual are not subject to any warranty claims.

3. FEATURES

- Irradiation angle (0-230°)±1°
- 3 operation mode: DMX controlled, stand alone, or sound activated
- 3 DMX Modes:
  - » 9 Channel
  - » 12 Channel
  - » 36 Channel
- Strobe effect
- Electronic Power Supply (AC 100V-240V~, 50Hz/60Hz)
- Fresnel lens
- High power Cree LEDs ,RGBW 4IN1 10W/pcs

4. GENERAL GUIDELINES

This fixture is a professional lighting effect designed for use on stage, in nightclubs, in theatres, etc. Do not attempt operation or installation without a proper knowledge on how to do so.

This fixture was designed for indoor use only.
Consistent operational breaks may ensure that the fixture will function properly for many years to come.

Do not shake the fixture around. Avoid brute force when installing or operating the device.

While choosing an installation location, please be sure that the fixture will not be exposed to extreme heat, moisture or dust. The minimum distance between the fixture and a wall or flat surface should be at least 1 meter (about 3.5ft).

Always install the fixture with an appropriate safety cable. When installing the fixture in a suspended environment always be sure to use mounting hardware no less than M10 x 25 mm, also be sure the hardware is insert in the pre-arranged screw holes in the base of the fixture.

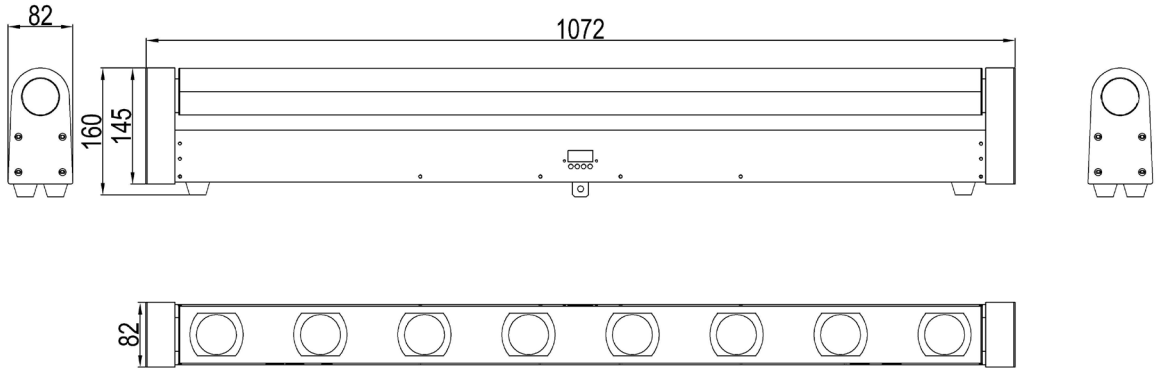
When using the quick release “Omega” cam-lock system, be sure the quick lock fasteners are locked in the quick lock holes correctly.

Do not attempt to operate this fixture until you have familiarized yourself with its functions.

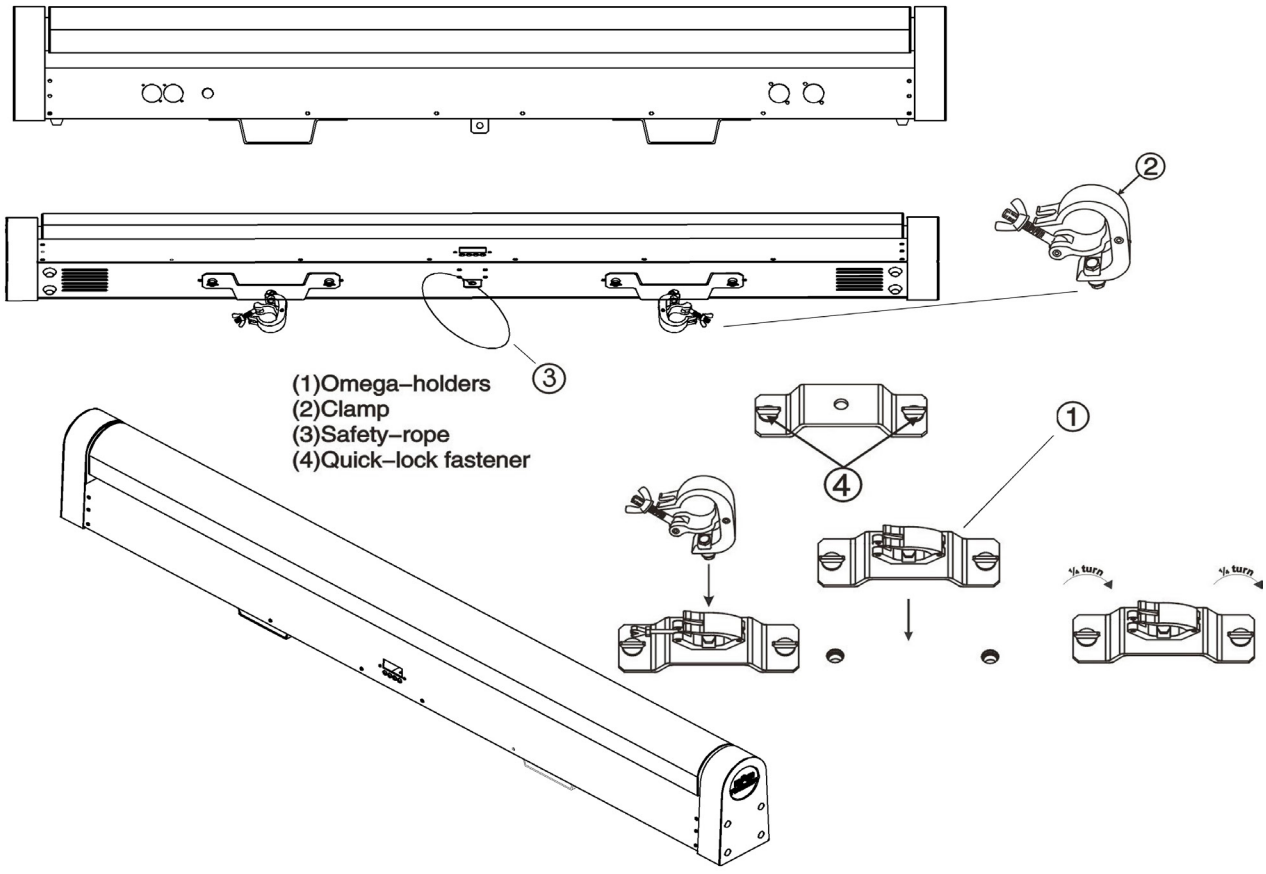
Do not permit operation by persons not qualified for operating this type of theatrical fixture; most damages are the result of operations by nonprofessionals.

Please use the original packaging to transport the fixture in for service.

5. FIXTURE OVERVIEW



6. MOUNTING AND INSTALLATION



Cautions:

For added protection mount the fixtures in areas outside walking paths, seating areas, or in areas were the fixture might be reached by unauthorized personal.

Before mounting the fixture to any surface, make sure that the installation area can hold a

minimum point load of 10 times the device's weight.

- ***Fixture installation must always be secured with a secondary safety attachment, such as an appropriate safety cable.***

- ***Never stand directly below the device when mounting, removing, or servicing the fixture.***

Mounting
The Eight head beam bar is fully operational in two different mounting positions, hanging upside-down from a ceiling, or set on a flat level surface. Be sure this fixture is kept at least 0.5m away from any flammable materials (decoration etc.). Always use and install the supplied safety cable as a safety measure to prevent accidental damage and/or injury in the event the clamp fails.

Mounting points
Overhead mounting requires extensive experience, including amongst others calculating working load limits, a fine knowledge of the installation material being used, and periodic safety inspection of all installation material and the fixture. If you lack these qualifications, do not attempt the installation yourself. Improper installation can result in bodily injury.

- ***Be sure to complete all rigging and installation procedures before connecting the main power cord to the appropriate wall outlet.***

Clamp Mounting
The Eight head beam bar provides a unique mounting bracket assembly that integrates the bottom of the base, the included "Omega Bracket," and the safety cable rigging point in one unit (see the illustration below). When mounting this fixture to truss be sure to secure an appropriately rated clamp to the included omega bracket using a M10 screw fitted through the center hole of the "omega bracket". As an added safety measure be sure to attached at least one properly rated safety cable to the fixture using on of the safety cable rigging point integrated in the base assembly

Securing the Eight head beam bar
Regardless of the rigging option you choose for your Eight head beam bar always be sure to secure your fixture with a safety cable. The fixture provides a built-in rigging point for a safety cable on the hanging bracket as illustrated above. Be sure to only use the designated rigging point for the safety cable and never secure a safety cable to a carrying handle.

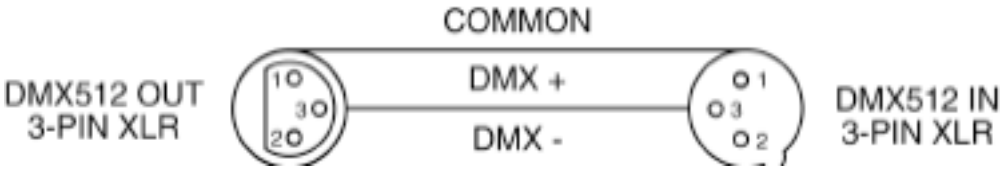
7. UNDERSTANDING DMX

DMX-512: DMX is short for Digital Multiplex. This is a universal protocol used by most lighting and controller manufactures as a form of communication between intelligent fixtures and controllers. DMX allows all makes and models of different manufactures to be linked together and operate from a single controller. This is possible as long as all the fixtures and the controller are DMX compliant. A DMX controller sends the DMX data instructions to the fixture allowing the user to control the different aspects of an intelligent light. DMX data is sent out as serial data that travels from fixture to fixture via data "IN" and

data “OUT” XLR terminals located on the fixtures (most controllers will only have output jacks).

DMX Linking: To ensure proper DMX data transmission, always use proper DMX cables and a terminator. When using several DMX fixtures try to use the shortest cable path possible. Never split a DMX line with a “Y” style connector. The order in which the fixtures are connected in a DMX line does not influence the DMX addressing. For example; a fixture assigned a DMX address of 1 may be placed anywhere in the DMX chain, at the beginning, at the end, or anywhere in the middle. The DMX controller knows to send data assigned to address 1 to that fixture no matter where it is located in the DMX chain. The Eight head beam bar can be controlled via DMX-512 protocol. The Eight head beam bar is a 23-channel DMX fixture (23 default, can also be 21 or 34). The DMX address is set electronically using the controls on the LCD menu.

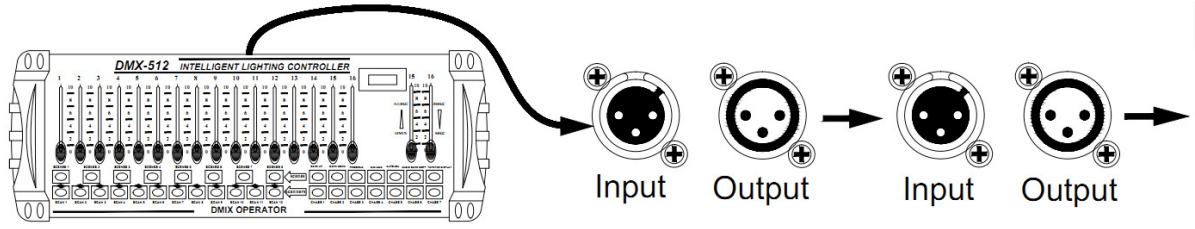
Data Cable (DMX Cable) Requirements (For DMX and Master/Slave Operation):Your fixture and your DMX controller require a standard 3-pin or 5-pin XLR connector for data input and data output (the figure on the next page is of a 3-Pin XLR connector). If you are making your own cables, be sure to use two conductor shielded digital DMX cable rated at 120 ohms; this cable is designed for DMX transmission and may be purchased from your Elation dealer or at most professional lighting retailers. Your cables should be made with a male and female XLR connector on either end of the cable. Also, remember that a DMX line must be daisy chained and cannot be split, unless using an approved DMX splitter .



Be sure to follow the above figure when making your own cables. Do not use the ground lug on the XLR connector. Do not connect the cable’s shield conductor to the ground lug or allow the shield conductor to come in contact with the XLR’s outer casing. Grounding the shield could cause a short circuit and erratic behavior.

DMX-512 control connection

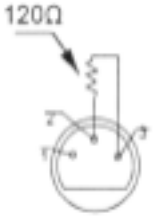
Connect the provided XLR cable to the female 3-pin XLR output of your controller and the other side to the male 3-pin XLR input of the moving head (Please refer to the diagram



below.). You can chain multiple moving heads together through serial linking. The cable that should be used is two conductor, shielded DMX cable with XLR input and output connectors. Always be sure daisy chain your in and out data connections, never split or “Y” your DMX connections unless you are using an approved DMX splitter .

DMX-512 connection with DMX terminator

A DMX terminator should be used in all DMX lines especially in longer runs. The use of a terminator may avoid erratic behavior in your DMX line. A terminator is a 120 ohm 1/4 watt resistor that is connected between pins 2 and 3 of a male XLR connector (DATA + and DATA -). This fixture is inserted in the female XLR connector of the last fixture in your daisy chain to terminate the line. Using a line terminator (Elation part: DMX T PACK) will decrease the possibilities of erratic behavior.



Termination reduces signal errors and avoids signal transmission problems and interference. It is always advisable to connect a DMX terminal, (Resistance 120 Ohm 1/4 W) between PIN 2 (DMX-) and PIN 3 (DMX +) of the last fixture.

5-Pin XLR DMX Connectors. Some manufactures use 5-pin XLR connectors for DATA transmission in place of 3-pin. 5-pin XLR fixtures may be implemented in a 3-pin XLR DMX line. When inserting standard 5-pin XLR connectors in to a 3-pin line a cable adaptor must be used, these adaptors are readily available at most electric stores. The following chart details a proper cable conversion.

3-Pin XLR to 5-Pin XLR Conversion		
Conductor	3-Pin XLR Female (Out)	5-Pin XLR Male (In)
Ground/Shield	Pin 1	Pin 1
Data Compliment (- signal)	Pin 2	Pin 2
Data True (+ signal)	Pin 3	Pin 3
Not Used		Pin 4 - Do Not Use
Not Used		Pin 5 - Do Not Use

Fixture DMX addressing

All fixtures should be given a DMX starting address when using a DMX controller, so the correct fixture responds to the correct control signal. This digital starting address is the channel number from which the fixture starts to “listen” to the digital control information sent out from the DMX controller. The allocation of this starting DMX address is achieved by setting the correct DMX address on the digital display located on the base of the fixture.

You can set the same starting address for all fixtures or a group of fixtures, or set different address for each individual fixture. Be advised that setting all you fixtures to the same DMX address will subsequently control all fixtures in the same fashion, in other words, changing the settings of one channel will affect all the fixtures simultaneously.

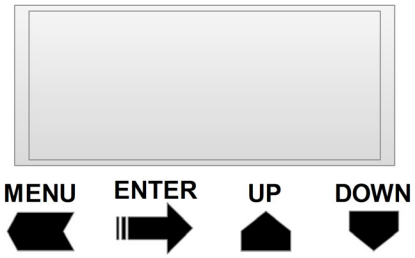
If you set each fixture to a different DMX address, each unit will start to “listen” to the

channel number you have set, based on the quantity of control channels (DMX channels) of each fixture. That means changing the settings of one channel will only affect the selected fixture.

EXP: In "dn01" mode, this fixture is in 9 channel mode, you should set the starting DMX address of the first unit to 1, the second unit to 11 (10 + 1), the third unit to 21 (11 + 10), and so on.

CAUTION!
Be sure a qualified electrician performs all electrical connections.

8. CONTROL BOARD



KEY instruction

"MENU"/"Mode": return the upper menu

"UP"/"+": add value or choose the previous value

"DOWN"/"-": decrease value or choose the next value

"ENTER": Enter the sub menu or saved the setting.

Addr (DMX address setting)

This function is used to set the starting DMX address of the fixture. Each fixturet controlled by DMX device has a starting address. The DMX function is to ensure normal addressing. A DMX address of the fixture allows it to communicate with the controller.

dn - (console mode selection)

This function allows you to use the console to control the fixture, the fixture provide three

different console mode:
dn01-9 DMX channal, dn02-12 DMX channal, dn03-36 DMX channal

Angl (Irradiation angle positioning)
Irradiation angle settings,Irradiation angle (0-230 °).

rL - gl - bl - El - (dimming)
This section is used for the lighting of the red, green, blue, white linear dimming.

AUTO (run the built-in effects)
This section is used to run the lamps built-in program. A total of 18 effects to choose from.

SPED (the effect of the speed controller)
This function is used to adjust the running speed of the built-in effects.

Alef (display value)
This function is used to display the current built-in effects run step (uncontrollable).

SOUA (sound active(color jump change))
This function is used to turn the sound active function, In this mode, fixture active by the sound,

SOUF (sound active (color flash))
This function is used to turn the sound active function, In this mode, fixture active by the sound,

Synchronous operation setting (no console)
Host: in the ***AUTO / ALEF / SOUA / SOUF*** mode.
Slave: A.001

Synchronous operation set (console mode)
Host: dn01 / dn02 / dn03
Slave: A.001

9. DMX CHANNEL TRAITS

dn.01 (Console mode setting)				
CH1	0-255	Irradiation angle (0-100%)		
CH2	0-255	Motor Speed (fast to slow)		
CH3	0-255	Total dimmer (0-100%)		
CH4	0	OFF		
	1-255	Strobe effect		
CH5	0-255	Red dimmer (0-100%)		
CH6	0-255	Green dimmer (0-100%)		
CH7	0-255	Blue dimmer (0-100%)		
CH8	0-255	White dimmer (0-100%)		
CH9	0-255	Effect speed (fast to slow)		
	0-59	Loop	160-169	effect 11
	60-69	Color Jump change (effect 1)	170-179	effect 12
	70-79	Color fade (effect 2)	180-189	effect 13
	80-89	effect 3	190-199	effect 14
	90-99	effect 4	200-209	effect 15
	100-109	effect 5	210-219	effect 16
	110-119	effect 6	220-229	effect 17
	120-129	effect 7	230-239	effect 18
	130-139	effect 8	240-245	Sound active (color jump change)
	140-149	effect 9	246-255	Sound active (color flash)
	150-159	effect 10		
CH10	0-255	Effect Speed (fast to slow)		

dn.02 (Console mode setting)			
CH1	0-255	Irradiation angle (0-100%)	
CH2	0-255	Motor Speed (fast to slow)	
CH3	0-255	Total dimmer (0-100%)	
CH4	0	OFF	
	1-255	Strobe effect	
CH5	0-255	RGBW dimmer (0-100%)	the 1st head
CH6	0-255	RGBW dimmer (0-100%)	the 2nd head
CH7	0-255	RGBW dimmer (0-100%)	the 3rd head
CH8	0-255	RGBW dimmer (0-100%)	the 4th head
CH9	0-255	RGBW dimmer (0-100%)	the 5th head
CH10	0-255	RGBW dimmer (0-100%)	the 6th head
CH11	0-255	RGBW dimmer (0-100%)	the 7th head
CH12	0-255	RGBW dimmer (0-100%)	the 8th head

dn.03 (Console mode setting)			
CH1	0-255	Irradiation angle (0-100%)	
CH2	0-255	Motor Speed (fast to slow)	
CH3	0-255	Total dimmer (0-100%)	
CH4	0	OFF	
	1-255	Strobe effect	
CH5	0-255	Red dimmer (0-100%)	the 1st head
CH6	0-255	Green dimmer (0-100%)	
CH7	0-255	Blue dimmer (0-100%)	
CH8	0-255	White dimmer (0-100%)	
CH9	0-255	Red dimmer (0-100%)	the 2nd head
CH10	0-255	Green dimmer (0-100%)	
CH11	0-255	Blue dimmer (0-100%)	
CH12	0-255	White dimmer (0-100%)	
CH13	0-255	Red dimmer (0-100%)	the 3rd head
CH14	0-255	Green dimmer (0-100%)	
CH15	0-255	Blue dimmer (0-100%)	
CH16	0-255	White dimmer (0-100%)	
CH17	0-255	Red dimmer (0-100%)	the 4th head
CH18	0-255	Green dimmer (0-100%)	
CH19	0-255	Blue dimmer (0-100%)	
CH20	0-255	White dimmer (0-100%)	

CH21	0-255	Red dimmer (0-100%)	the 5th head
CH22	0-255	Green dimmer (0-100%)	
CH23	0-255	Blue dimmer (0-100%)	
CH24	0-255	White dimmer (0-100%)	
CH25	0-255	Red dimmer (0-100%)	the 6th head
CH26	0-255	Green dimmer (0-100%)	
CH27	0-255	Blue dimmer (0-100%)	
CH28	0-255	White dimmer (0-100%)	
CH29	0-255	Red dimmer (0-100%)	the 7th head
CH30	0-255	Green dimmer (0-100%)	
CH31	0-255	Blue dimmer (0-100%)	
CH32	0-255	White dimmer (0-100%)	
CH33	0-255	Red dimmer (0-100%)	the 8th head
CH34	0-255	Green dimmer (0-100%)	
CH35	0-255	Blue dimmer (0-100%)	
CH36	0-255	White dimmer (0-100%)	

10. CLEANING AND MAINTENANCE

The following points have to be considered during the inspection:

1) Be sure all screws and fasteners are securely tightened at all times. Lose screws may fall out during normal operation resulting in damage or injury as larger parts could fall.
2) There must not be any deformations on the housing,rigging hardware and rigging points (ceiling, suspension, trussing). Damaged rigging points or unsecured rigging could cause the unit to fall and serious injure a person.
3) All mechanical parts and motors should not show any traces of serious wear and should rotate freely.
4) Electric power supply cables must not show any damage, material fatigue or sediments. Never remove the ground prong from the power cable.

Further instructions depending on installation and usage have to be adhered by a skilled installer and any safety problems should be addressed before attempting operation.

We recommend frequent cleaning of the fixture, this will ensure operational longevity and crisp light output. When cleaning, please use a moist, lint-free cloth. Never use alcohol or solvents.

There are no user serviceable parts inside this fixture . Please refer all other service related issues to an authorized service technician.

11. TECHNICAL SPECIFICATIONS

Power supply	
Power Requirements	AC 100V-240V~, 50Hz/60Hz
Power Consumption	80 W
Optical system	
CREE LED 10W/pcs RGBW 4IN1 ,total 8pcs	
LED life	50000h
Lens	
Fresnel lens 45°	
DMX CHANNAL	
9 / 12 / 36	
Drive	
Standard DMX-512, 3 pole XLR; [+] = Pin 3 [-] = Pin 2 [Ground] = Pin 1 or 5 pole XLR; n/a = Pin 5, n/a = Pin 4, [+] = Pin 3, [-] = Pin 2, [Ground] = Pin 1 Starting DMX [001].	
Irradiation angle	
Irradiation angle	(0-230°) ±1°
Weights and Measures	
Length	1072mm
Width	82mm
Height	145mm(+15mm plastic foot)
Weight (net)	8.5kg
Operating Noise Levels(Base level 46.8dB)	
1m :< 70 dB	
Ambient Operating Temperature	
-25℃ ~ 45℃	
All specifications are subject to change at any time without notice.	

12. 1-YEAR LIMITED WARRANTY

- A. Hereby warrants, to the original purchaser, our products to be free of manufacturing defects in material and workmanship for a period of one years, (365 days) from the date of purchase.

- B. For warranty service, send the product only to the our factory. All shipping charges must be pre-paid. If the entire instrument is sent, it must be shipped in its original package. No accessories should be shipped with the product. If any accessories are shipped with the product, we shall have no liability what so ever for loss of or damage to any such accessories, nor for the safe return thereof.

- C. This warranty is void if the serial number has been altered or removed; if the product is modified in any manner which we concludes, after inspection, affects the reliability of the product; if the product has been repaired or serviced by anyone other than the our factory unless prior written authorization was issued to purchaser by us; if the product is damaged because not properly maintained as set forth in the instruction manual.

- D. This is not a service contract, and this warranty does not include maintenance, cleaning or periodic check-up. During the period specified above, we will replace defective parts at its expense, and will absorb all expenses for warranty service and repair labor by reason of defects in material or workmanship. The sole responsibility of us under this warranty shall be limited to the repair of the product, or replacement thereof, including parts, at the sole discretion of us.

- E. Our company reserves the right to make changes in design and/or improvements upon its products without any obligation to include these changes in any products theretofore manufactured.

- F. No warranty, whether expressed or implied, is given or made with respect to any accessory supplied with products described above. Except to the extent prohibited by applicable law, all implied warranties made by us in connection with this product, including warranties of merchantability or fitness, are limited in duration to the warranty period set forth above. And no warranties, whether expressed or implied, including warranties of merchantability or fitness, shall apply to this product after said period has expired. The consumer's and or Dealer's sole remedy shall be such repair or replacement as is expressly provided above; and under no circumstances shall we be liable for any loss or damage, direct or consequential, arising out of the use of, or inability to use, this product.

- G. This warranty is the only written warranty applicable to our products and supersedes all prior warranties and written descriptions of warranty terms and conditions heretofore published.

13. Disclaimer

- The contents of this manual are subject to change without notice, if in doubt, consult your local hotline.
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